

## SUPPLEMENTARY FIGURE LEGENDS

**Supplementary Figure 1. Gating strategy for lymphoid (A) and myeloid (B) immunocyte subsets.** FSC= forward scatter, SSC= side scatter

**Supplementary Figure 2. Systemic immune responses to acute metformin exposure in non-tumor bearing mice.** C57BL/6J male mice were treated either with metformin at 40mg/kg i.p (n=4) or PBS control (n=4) daily for 5 days prior to harvesting lymph nodes and spleen for analysis of immune cells. Flow cytometry was used to characterize T-cell and myeloid cell subsets in spleen (A) and inguinal lymph node (B) tissues. Data are presented as means with error bars denoting standard deviation. \* denotes p-value < 0.05.

**Supplementary Figure 3. Hierarchical Sample clustering and Principal Component Analysis.** A) Unsupervised hierarchical clustering of the normalized data scaled to give all genes equal variance. The treatment covariate segregates the samples into two major clusters based on their gene expression profile with blue indicating low expression and orange indicating higher expression. The probes flagged in blue are expressed below threshold and are omitted from clustering. B) p-values distribution plot for the treatment covariate included in the analysis. C) Principal Component Analysis (PCA) of the first four principal components of the gene expression data plotted against each other for the treatment covariate, showed a significant separation between the treated and the control groups in the first and second component plots.